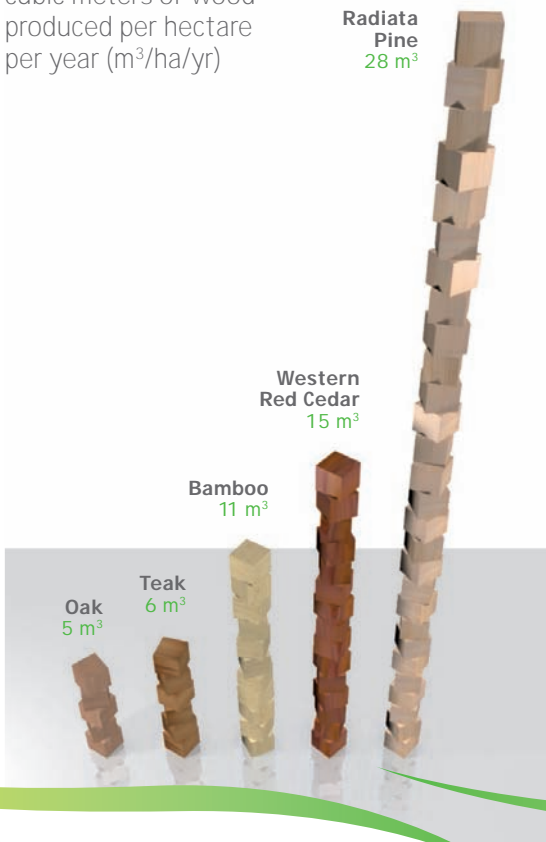
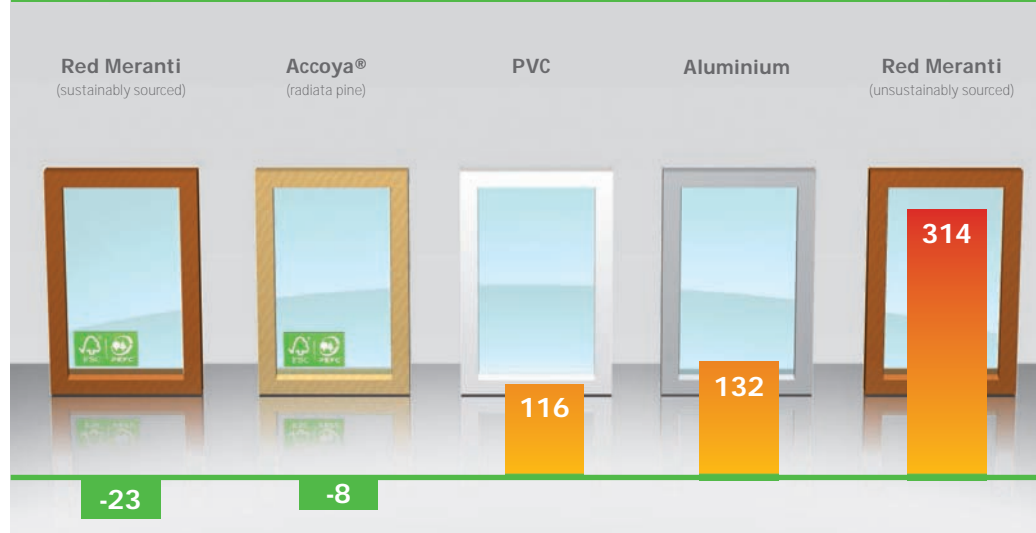


annual yield comparison

cubic meters of wood produced per hectare per year (m³/ha/yr)



cradle to grave carbon footprint comparison (window frames)



Greenhouse gas emissions (cradle to gate) in kg CO₂ eq per window frame in various material alternatives

- ▶ In a cradle to grave carbon footprint assessment, greenhouse gas emissions during the life cycle of a product / material can be measured, numbers provided in kg CO₂ equivalent.
- ▶ Includes end of life scenario (recycling, dump or incineration for energy) and carbon sequestration effect of wood according to PAS 2050:2011 guidelines over a 100 year time frame.
- ▶ Source: Vogtländer, J.G. (2013). Cradle to Grave Carbon Footprint Assessment for Accoya® Wood and its applications Part 1: Window Frame. Delft University of Technology. Publicly available through <http://www.accoya.com/downloads>
- ▶ Annual yield of renewable materials is not included in a carbon footprint assessment and can be perceived as an additional environmental credential for slow growing, limited available certified tropical hardwood, but especially for Accoya® based on fast growing certified sources.

ecolabels



The mark of responsible forestry



www.pefc.org





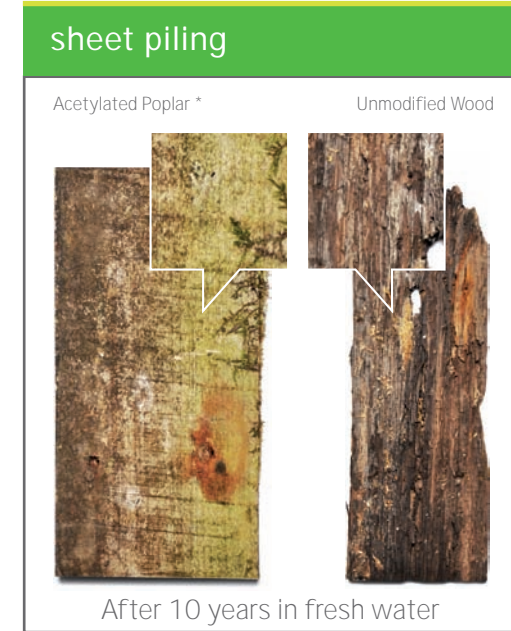
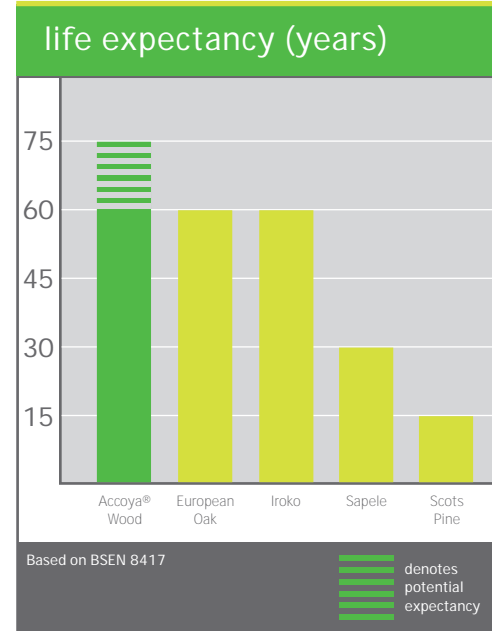
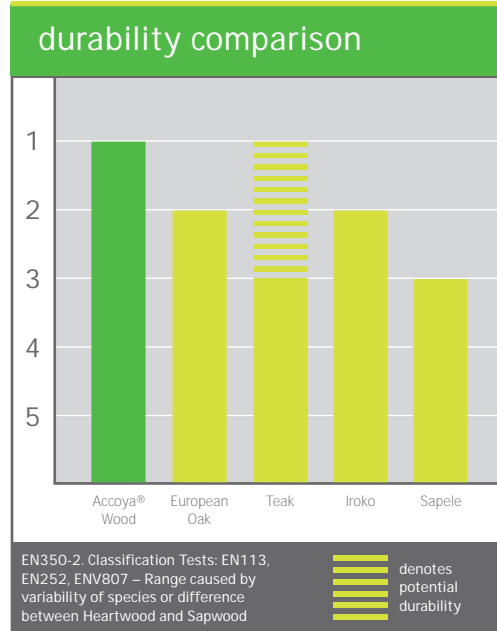
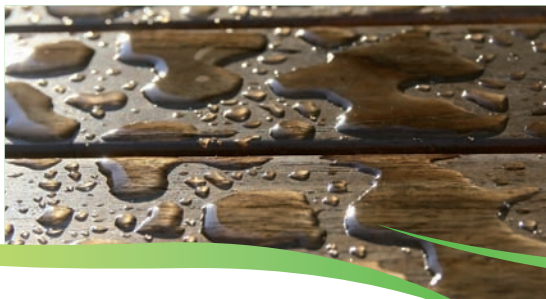
durability

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Parkers Close Downton
Salisbury
Wiltshire SP5 3RB

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www.bensmithjoinery.co.uk



Accoya® wood's durability (rot resistance) is Class 1, matching and even exceeding the performance of nature's most durable woods such as Oak, Teak, Iroko and Sapele. Every batch of Accoya® wood is tested after production to ensure that its durability can be guaranteed.



the Accoya® advantage

- ▶ joinery that will stand the test of time and not require replacement for at least 60 years**
- ▶ use in demanding external applications, even in fresh water
- ▶ beauty, elegance and style – natural or coated

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** In use classes 1, 2 and 3 as defined in EN335-1



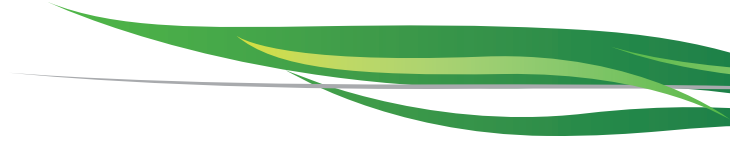
dimensional stability

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Accoya® wood's superior dimensional stability (resistance to swelling and shrinkage) exceeds all commonly used species, including Teak, Sapele and Iroko.

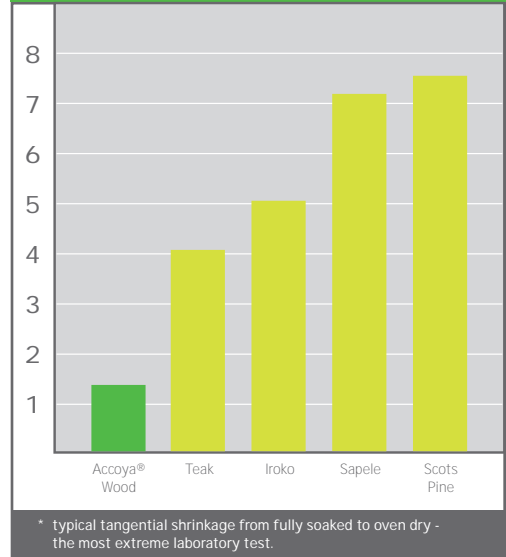


TRADA trial results

Accoya® wood was the only wood that did not cup in this TRADA** trial on wooden cladding.



tangential shrinkage* (%)



extreme conditions



Accoya® wood has been tested over prolonged periods in all types of weathering conditions - above ground, below ground and even in water - and has been proven to withstand even the toughest of external environments.

reduced swelling



the Accoya® advantage

- ▶ reduced swelling and risk of jamming in humid conditions
- ▶ better fitting windows and doors in all weathers
- ▶ less frequent coatings maintenance

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** Timber Research and Development Association www.trada.co.uk

the world's leading high technology wood



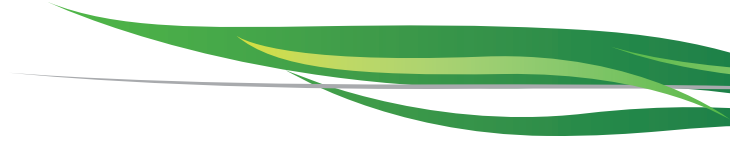
coatings performance

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Accoya® wood has shown improved coating lifetime performance with many types of coatings, resulting in extended maintenance intervals. The light colour of Accoya® wood allows for a wide range of colour finishes.



coating comparison after 13 years of outdoor exposure

Translucent WB Acrylic Coating

Opaque WB Acrylic Coating



Acetylated Wood *

Unmodified Wood

Acetylated Wood *

Unmodified Wood



Swelling and shrinkage of wood is reduced by 70-80%. Paints and other film-forming coatings are not therefore subjected to such severe stretch and shrink cycles, thus reducing maintenance frequency.



Accoya® wood's superior resistance to UV degradation improves the life of any coating by providing a sound substrate.



the Accoya® advantage

- ▶ Potential for less frequent coatings maintenance
- ▶ Cost savings during the life of the product
- ▶ Environmental benefits during the life of the product
- ▶ Wider range of colour and coatings options

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